PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

09/231,854

Filing Date:

January 14, 1999

Applicant:

Michael A. Martinelli et al.

Group Art Unit:

1632

Examiner:

Shawna J. Shaw

Title:

METHOD AND SYSTEM FOR NAVIGATING A

CATHETER PROBE

Attorney Docket:

5074A-000032/REA

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

REQUEST FOR CORRECTION OF POWER OF ATTORNEY AND CORRESPONDENCE ADDRESS

Sir:

Surgical Navigation Technologies, Inc., an assignee of record, has filed two separate Statements Under 37 CFR 3.73 (b) and Powers of Attorney. Both of the filed Statements Under 37 CFR 3.73 (b) and Powers of Attorney included a power of attorney to the attorneys associated with and a request to change the correspondence address to the address associated with Customer Number 27572, which is Harness, Dickey & Pierce, P.L.C. having an address of P.O. Box 828, Bloomfield Hills, Michigan, 48303. Both Statements and Powers of Attorney were received by the United States Patent and Trademark Office, as indicated by date stamps thereon. The first is date stamped December 30, 2004 (enclosed herewith under Tab A) and the second is date stamped June 1, 2005 (enclosed herewith under Tab B).

Although the Office received and date stamped both Statements and Powers of Attorney, PAIR indicates that the attorney name and correspondence address in the subject application remains with the original attorney. A print-out from PAIR dated December 16, 2008 (enclosed herewith under Tab C) incorrectly shows the original attorney and correspondence address.

The assignee respectfully requests that the Office confirm receipt of the Statements and Powers of Attorney, previously filed, and change the attorney and correspondence address to the correspondence address associated with Customer Number 27572 of Harness, Dickey & Pierce, P.L.C. having an address of P.O. Box 828, Bloomfield Hills, Michigan, 48303.

Respectfully submitted,

Richard W. Warner

Reg. No. 38,043

Attorney for Applicants

HARNESS, DICKEY & PIERCE, P.L.C. P.O. Box 828 Bloomfield Hills, MI 48303 (248) 641-1600

Date: December 22, 2008





PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Anr	LICATION	NIA :
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	lication	

09/231,854

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Applicant:

Martinelli et al.

Group Art Unit:

3737

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Shawna J. Shaw

Title:

METHOD AND SYS FROM NAVIGATING A

CATHETER PROBE

Attorney Docket:

5074A-000032/REA

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

STATEMENT UNDER 37 CFR 3.73(b) AND POWER OF ATTORNEY

Under 37 C.F.R. § 3.73(b), the undersigned hereby states that the below-named Assignee is an assignee in the above-identified Application:

Assignee:

Surgical Navigation Technologies, Inc.

826 Coal Creek Circle

Coal Creek Corporate Center One

Louisville, CO 80027

The documentary evidence of a chain of title from the original owner to the Assignee is provided in the Assignment Document(s):

\boxtimes	filed herewith	1,	
	previously file	ed,	
	Reel No.	Frame No.	

POWER OF ATTORNEY

I hereby appoint each practitioner at Customer No. 27572 of Harness, Dickey & Pierce,

P.L.C., my attorney with full power of substitution and revocation, to prosecute this application

and to transact all business in the Patent and Trademark Office connected therewith.

CORRESPONDENCE ADDRESS

I request the Patent and Trademark Office to direct all correspondence and telephone

calls relative to this application to Customer No. 27572, Harness, Dickey & Pierce, P.L.C., P. O.

Box 828, Bloomfield Hills, Michigan 48303 (248) 641-1600.

The undersigned, whose title is supplied below, is empowered to sign this certificate on

behalf of the assignee.

RESPECTFULLY SUBMITTED,

Date: 12/29/04

Name: Mark W. Hunter

Title: Group Director Business Development

ASSIGNMENT

This agreement is made and entered into as of the day of day of ("Effective Date"), by and between Michael A. Martinelli, Ph.D., an individual, located at 58 Wedgemere Avenue, Winchester, MA 01890, Winchester Development Associates, a sole proprietorship located at 58 Wedgemere Avenue, Winchester, MA 01890, and Enterprise Medical Technology, a Massachusetts corporation having offices at 20 Acorn Park, Cambridge, MA 02140-2390 (hereinafter "Assignors"), and Surgical Navigation Technologies, Inc., a Colorado corporation having a principal office at 826 Coal Creek Circle, Coal Creek Corporate Center One, Louisville, CO 80027 (hereinafter "Assignee").

BACKGROUND

Assignors collectively own all right, title, and interest in and to all patents and patent applications identified in Schedule A, the inventions disclosed and claimed therein, and all patent applications that rely on any of the patents and/or patent applications for priority (hereinafter "Patents").

Assignors collectively are the owner of certain unpublished research and development information, unpatented inventions, know-how, trade secrets, and technical data relating to the design and development of electromagnetic position tracking systems (hereinafter "Proprietary Information"), a list identifying the Proprietary Information is attached as Schedule B.

Assignee desires to acquire, and Assignors are willing to assign to Assignee, all of Assignors' right, title, and interest in and to the Proprietary Information, the Patents, and any inventions disclosed and/or claimed in the Patents and any improvements therein, all of which will be hereinafter collectively referred to as "Intellectual Property".

<u>GRANT</u>

NOW, THEREFORE, for valuable consideration, the receipt and sufficiency of which is hereby knowledge, Assignors hereby transfer, grant, convey, assign, and relinquish exclusively to Assignee, its successors and assigns, all of Assignors' right, title, and interest in and to the Intellectual Property including the Proprietary Information, as well as the Patents, the inventions claimed in the Patents and any patent applications in any country directed to the inventions claimed therein, all continuations, continuation-in-part applications, divisionals, reissues, reexaminations, renewals and extensions thereof, and all rights to claim priority on the basis of the Patents or the patent applications, and all accrued causes of action for damages for infringement thereof.

In furtherance of this Agreement, Assignors hereby acknowledge that, from the Effective Date forward, Assignee has succeeded to all of Assignors' right, title, and standing to receive all rights and benefits pertaining to the Intellectual Property, institute and prosecute all suits and proceedings, and take all actions that Assignee, in its sole discretion, may deem necessary or proper to collect, assert, or enforce any claim, right, or title of any kind under any and all of the Intellectual Property, whether arising before or after the Effective Date, defend and compromise any and all such actions, suits, or proceedings relating to such transferred and assigned rights, title, interest, and benefits, and do all other such acts and things in relation thereto as Assignee, in its sole discretion, deems advisable. Assignors hereby authorize and request the Commissioner of Patents and

Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above to issue all Letters Patents for inventions to Assignee, it successors and assigns, in accordance with the terms of this agreement.

Assignors shall execute and deliver to Assignee, from time to time after the date hereof upon the request of Assignee, such further conveyance instruments as may be necessary or desirable to evidence more fully the transfer of ownership of all the Intellectual Property to Assignee, or the original ownership of all the Intellectual Property on the part of Assignors, to the fullest extent possible. Assignors further agree to provide testimony in connection with any proceeding affecting the right, title, interest, or benefit of Assignee in and to the Intellectual Property and to perform any other acts deemed necessary to carry out the intent of this Agreement. Assignee shall reimburse Assignors for any and all costs reasonably incurred by Assignors in performance under this paragraph.

This Agreement shall inure to the benefit of, and be binding on, the parties hereto together with their respective legal representatives, successors, and assigns.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement under seal the day and year first above written.

For and on behalf of	
MICHAEL A. MARTINELLI, PH.D.	SWORN TO BEFORE ME
By: Michald Martinghi	This 3 Lov day of Tuly 2003
	Shil F. Danslow
	Notary Public Notary Public
For and on behalf of	MT COMMISSION FXPIRE
WINCHESTER DEVELOPMENT ASSOCIATES	SWORN TO BEFORE ME JANUARY 20, 2006
Ву:	This 3/ Al day of Fully 2003
Full Name: Michael M. Marty la .	Shil P. D. Zilli
Capacity: Presupert	Notary Public
For and on behalf of	
ENTERPRISE HEDICAL TECHNOLOGY	SWORN TO BEFORE ME
By See ACC	This and day of the Centre
Full Name: Stephen S. Gray	Chille
Capacity: Plan Administrator	Notary Public

hereby declare acceptance of the assigned rights as mentioned above:

For and on behalf of SURGICAL NAVIGATION TECHNOLOGIES, INC.	SWORN TO BEFORE ME
By: The The	This 27th day of December, 2004
Full Name: MARK WILLIAM HUNTER	Laura M Eva
Canacina So DIRECTOR BUSINESS DEVALOR &	Notary Public

SCHEDULE A

TITLE	INVENTOR(S)	PATENT NO.	ISSUE DATE	SERIALNO.	FILING DATE
				NO	DATE
Coil Structures and Methods for Generating Magnetic Fields	Brad Jascob Paul Kessman Michael Martinelli			60/161,990	October 28, 1999
Coil Structures and Methods for Generating Magnetic Fields	Michael Martinelli Brad Jascob Mark W. Hunter			968'869/60	October 27, 2000
Coil Structures and Methods for Generating Magnetic Fields	Michael Martinelli Brad Jascob Mark W. Hunter			EP00973969.9	
Coil Structures and Methods for Generating Magnetic Fields	Michael Martinelli Brad Jascob Mark W. Hunter			US00/29733 WO200131466	October 27, 2000 May 3, 2001
Coil Structures and Methods for Generating Magnetic Fields	Michael Martinelli Brad Jascob Mark W. Hunter			AU200112408 AU200112408(A)	October 27, 2000 May 8, 2001
Patient-Shielding and Coil System	Michael Martinelli Paul Kessman Brad Jascob			60/161,989	October 28, 1999
Patient-Shielding and Coil System	Michael Martinelli Brad Jascob Mark W. Hunter			09/698,895	October 27, 2000
Patient-Shielding and Coil System	Winchester Development Associates and Enterprise Medical Technology, Inc. Michael Martinelli Brad Jascob	WO01/30437	May 3, 2001	US00/29730	October 27, 2000

SCHEDULE A

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FILING DATE PUBLICATION DATE	October 27, 2000 November 20, 2002	October 27, 2000 May 8, 2001	October 28, 1999	June 8, 2000	October 27, 2000 May 8, 2001	October 27, 2000 May 3, 2001	October 27, 2000 August 7, 2000	October 27, 2000 May 8, 2001
SERIAL NO. PUBLICATION NO.	EP00972380.0 EP1257317	AU2001011049	60/161,991	05/589,779	PCT/US00/29721 WO200130256	CA2,388,570 CA2,388,570AA	EP1227767	AU200111047
ISSUE DATE				December 10, 2002	May 3, 2001			
PATENT NO.				6,493,573	WO01/30,256			
INVENTOR(S) APPLICANT	Michael Martinelli Brad Jascob Mark W. Hunter	Michael Martinelli Brad Jascob Mark W. Hunter	Michael Martinelli Paul Kessman Brad Jacsob	Michael Martinelli Paul Kessman Brad Jascob	Winchester Development Associates and Enterprise Medical Technology, Inc.	Michael Martinelli Paul Kessman Brad Jascob	Michael Martinelli Paul Kessman Brad Jascob	Michael Martinelli Paul Kessman Brad Jascob
TITLE	Patient-Shielding and Coil System	Patient-Shielding and Coil System	Method and System for Navigating a Catheter Probe in the Presence of Field- Influencing Objects	Method and System for Navigating A Catheter Probe in the Presence of Field- Influencing Objects	Method and System for Navigating A Catheter Probe in the Presence of Field- Influencing Objects	Method and System for Navigating A Catheter Probe in the Presence of Field- Influencing Objects	Method and System for Navigating A Catheter Probe in the Presence of Field- Influencing Objects	Method and System for Navigating A Catheter Probe in the Presence of Field- Influencing Objects

TITLE	INVENTOR(S) APPLICANT	PATENT NO.	ISSUE DATE	SERIAL NO. PUBLICATION NO.	FILING DATE PUBLICATION DATE
Method and System for Navigating A Catheter Probe in The Presence of Field- Influencing Objects	Michael Martinelli Paul Kessman Brad Jascob	·		10/252,258 20030117135	September 23, 2002 June 26, 2003
Method and System for Navigating a Catheter Probe	Michael Martinelli	5,592,939	January 14, 1997	490,342	June 14, 1995
Method and System for Navigating a Catheter Probe	Michael Martinelli Wayne Haase			09/231,854	January 14, 1999
Method And System For Navigating A Catheter Probe	Michael Martinelli			09/494,213	January 24, 2000
Method and System for Navigating a Catheter Probe	Winchester Development Associates ¹	1		US96/10050 WO9700043	June 11, 1996 January 3, 1997
Method and System for Navigating a Catheter Probe	Michael Martinelli			EP96919360.6 EP836416	June 11, 1996 April 22, 1998
Method and System for Navigating a Catheter Probe	Michael Martinelli			JP97503261 JP11510406	June 11, 1996 September 14, 1999
Surgical Sensor	Mark W. Hunter Sheri McCoid Paul Kessman	6,499,488	December 31, 2002	09/428,721	October 28, 1999
Surgical Sensor	Surgical Navigation Technologies			DE10053457.0	October 27, 2000
Surgical Sensor	Winchester Development Associates			PCT/US00/29880 WO200130257	October 27, 2000 May 3, 2001

Subject to co-inventorship claim

SCHEDULE A

TITLE	INVENTOR(S) APPLICANT	PATENT NO.	ISSUE DATE	SERIAL NO. PUBLICATION NO.	FILING DATE PUBLICATION DATE
Surgical Sensor	Michael Martinelli Mark W. Hunter Sheri McCoid Paul Kessman			EP1257223	October 27, 2000 November 20, 2002
Surgical Sensor	Michael Martinelli Mark W. Hunter Sheri McCoid Paul Kessman			DE10085137.1	October 27, 2000 November 7, 2002
Surgical Sensor	Michael Martinelli Mark W. Hunter Sheri McCoid Paul Kessman			AU200113533	October 27, 2000 May 8, 2001
Surgical Sensor	Michael A. Martinelli Mark W. Hunter Sheri McCoid Paul Kessman			10/289,869 20030066538	November 7, 2002 April 10, 2003
System and Method for Navigating a Multiple Electrode Catheter	Michael A. Martinelli	6,104,944	August 15, 2000	08/972,061	November 17, 1997
Acoustic Image System and Method	Michael A. Martinelli Peter von Thuna	4,821,731	April 18, 1989	129,830	December 8, 1987
Acoustic Image System and Method	Michael A. Martinelli Peter von Thuna	JP2765738	April 3, 1998	JP500493/1989	September 30, 1988
Acoustic Image System and Method	Michael A. Martinelli Peter von Thuna			WO88US3366 WO8905123	September 30, 1988 June 15, 1989
Acoustic Image System and Method	Michael A. Martinelli Peter von Thuna			AU8927965A AU8927965A1 AU620580B2	September 30, 1988 July 5, 1989 February 20, 1992

TITLE	INVENTOR(S) APPLICANT	PATENT NO.	ISSUE DATE	SERIAL NO. PUBLICATION NO.	FILING DATE PUBLICATION DATE
Acoustic Irrage System and Method	Michael A. Martinelli Peter von Thuna			EP89900388 EP393113A1 EP393113A4	September 30, 1988 October 24, 1990 September 25, 1991
Acoustic Image System and Method	Michael A. Martinelli Peter von Thuna	CA1,293,048	December 10, 1991	CA580,043	October 13, 1988
Ultrasonic Transducer	Michael A. Martinelli	4,862,893	September 5, 1989	151,394	February 2, 1988
Ultrasonic Transducer	Michael A. Martinelli			WO88US4243 WO8906934	November 29, 1988 August 10, 1989
Ultrasonic Transducer	Michael A. Martinelli			AU8929288	November 29, 1988 August 25, 1989
Ultrasonic Transducer	Michael A. Martinelli	5,002,058	March 26, 1991	340,050	April 18, 1989
Method of Making A Transducer	Michael A. Martinelli	4,977,655	December 18, 1990	340,383	April 18, 1989



SCHEDULE B

Invention Disclosures Entitled:

- Navigation Catheter Based Coronary Artery Bypass;
- Self-Calibrating System for Navigating a Catheter Probe;
- Patient Shielding System for Magnetic Navigation System;
- High U-Core Ultra Small Navigated Sensor;
- Soft Tissue Morphed Display;
- Correcting Navigation Errors Due to Nearby Objects that are Electrically Conductive, March 20,1 999 (with input from Surgical Navigation Technologies, Inc.);
- Non-Overlapping Navigation Coil Structure, March 21, 1999 (including documents relating to removal of vertical end coils);
- Calculating Magnetic Field Equations with Infinite Conductive Sheet or EM Shield Method (O.R. table correction), March 3, 1999;
- Navigating a Ferromagnetic Electrically Conductive Tool Simultaneously with the Navigation of a Catheter, April 15, 1999;
- Disturbance Correction Using Known Sensor Placement Error Elimination Technique, April 20, 1999;
- Disclosure 5/9/99: Correcting Navigation Errors Due to Nearby Objects that are Electrically Conductive A Generalized Approach (Background see 3/20/99 disclosure).

Know-How Directed To:

- Product Concept Device;
- Prototype Designs:
 - i). Coils set design software and shielding technology;
 - ii). Coil driver technology;
 - iii). Pre-amplifier;
 - iv). Signal extraction.
- Navigation Software and Self Calibration;
- Fabrication Techniques and Material Suppliers/Contractors;
- Know-how and trade secrets acquired by EMT from Intra-Sonix, Inc.

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IN THE WRITED STATES PATENT AND TRADEMARK OFFICE

Apı	plica	ıtion	١N	lo.:

09/231,854

Filing Date:

1/14/1999

Applicant:

Martinelli et al.

Group Art Unit:

3737

Examiner:

Shawna J. Shaw

Title:

METHOD AND SYSTEM FOR NAVIGATING A

CATHETER PROBE

Attorney Docket:

5074A-000032/REA

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

STATEMENT UNDER 37 CFR 3.73(b) AND POWER OF ATTORNEY

Under 37 C.F.R. § 3.73(b), the undersigned hereby states that the below-named Assignee is an assignee in the above-identified Application:

Assignee:

Surgical Navigation Technologies, Inc.

826 Coal Creek Circle

Coal Creek Corporate Center One

Louisville, CO 80027

The documentary evidence of a chain of title from the original owner to the Assignee is provided in the Assignment Document(s):

	filed herewith,
\boxtimes	previously filed,
	Reel No. <u>015766</u> , Frame No. <u>0865</u> .

POWER OF ATTORNEY

I hereby appoint each practitioner at Customer No. 27572 of Harness, Dickey & Pierce,

P.L.C., my attorney with full power of substitution and revocation, to prosecute this application

and to transact all business in the Patent and Trademark Office connected therewith.

CORRESPONDENCE ADDRESS

I request the Patent and Trademark Office to direct all correspondence and telephone

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Box 828, Bloomfield Hills, Michigan 48303 (248) 641-1600.

The undersigned, whose title is supplied below, is empowered to sign this certificate on

behalf of the assignee.

RESPECTFULLY SUBMITTED,

Date: 4/20/05

Name:

ne: Mark W. Hunter

Title: Group Director Business Development



09/231,	854 METHOD AND SYSTE	M FOR NAVIGATING A CATHETER PROBE	12-16- 2008::10:55:25
Corres	pondence Address		
Name:		TOBY H KUSMER	
		McDERMOTT, WILL & EMERY	
Address:		28 STATE STREET	
		BOSTON MA 02109	
<u>Attorne</u>	ey/Agent Information		
Reg#	Name	Phone	
42478	Demsher, Ronald	617-526-6105	
43327	Gouges D'Agincourt, Carolyn	617-876-0654	
26418	Kusmer, Toby	617-535-4065	
26618	Lappin, Mark	617-504-1020	
34375	Levy, Elizabeth	508-359-3876	
36610	Mills, Steven	617-994-4900	
38572	Onello, Anthony Jr	617-994-4900	
19248	Schiller, Robert	617-527-0226	
26336	Silverstein, David	978-470-0990	

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